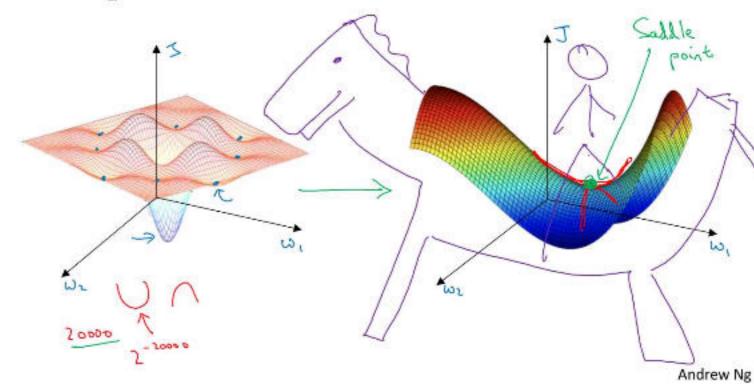
目期: 12/20 Learning rate Decay.
Learning rate decay
The state of the s
Andrew Ng
成随epoch 逐渐流水,在最十值的小剑玻内设动。 常见公式: x= H decay-Nate * epah
$X = 0.95$ epoch $X = \frac{k}{\sqrt{1000}} * 0.00 \text{ M} = \frac{k}{\sqrt{10000}} * 0.00 \text{ M} = \frac{k}{\sqrt{100000}} * 0.00 \text{ M} = \frac{k}{\sqrt{100000}} * 0.00 \text{ M} = \frac{k}{\sqrt{1000000}} * 0.00 \text{ M} = \frac{k}{100000000000000000000000000000000000$
Local optima.
高级空间不容易出犯最邻最优,
多为程点. Local optima in neural networks

笔点减缓学习过程,可以通过mini-botch 抗幼狂服,



日期: 12/20. Hyper Param Trune.
Prior:
1. d. 2. B, # hidden-units, batch size.
3. It layers, learning rate decay,
4. B, B, E,
6.9 0.999 158
涵务方法: 1. 随机单档 2. 由租到程.
3. babysit one model ~ Panda.
Train models in parallel - Cariar.
Batch 归一化: 对于义;,做归一化. 类似地,对 e^{i300} e^{i1100} 也做归一化. $\mu = \frac{1}{M} \stackrel{?}{\underset{\sim}{}} \stackrel{?}{\underset{\sim}{\underset{\sim}{}}} \stackrel{?}{\underset{\sim}{}} \stackrel{?}{\underset{\sim}{\underset{\sim}{}} \stackrel{?}{\underset{\sim}{}} \stackrel{?}{\underset{\sim}{\underset{\sim}{}} \stackrel{?}{\underset{\sim}{}} $

man dates		
日期:	17	121
<u>一</u> 六刀・	4	1 - 1

应用到 NN:

Σ 113 - B_{11,3} - Σ_{11,3} - Σ_{11,3}

Bin, rin 也视作为数准约 Gradient Descend.

371) = W21) a 2-1) + 1/27

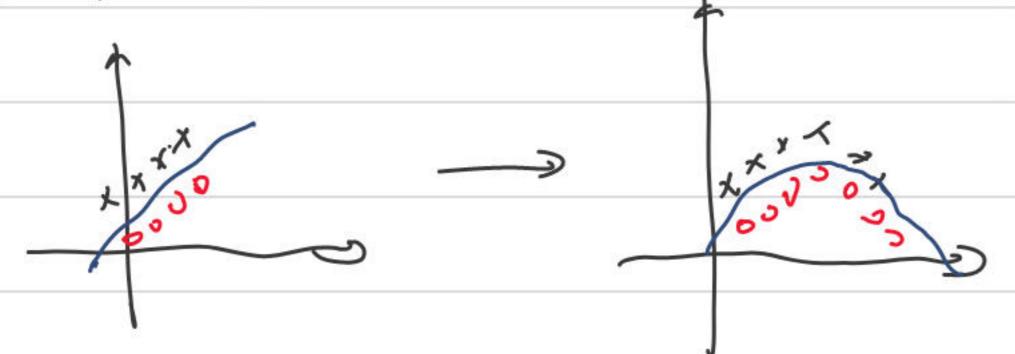
A 213 = 9(826).

ZID = 713 [10 1 3il)

Parans: will, Bill

(n, x1)

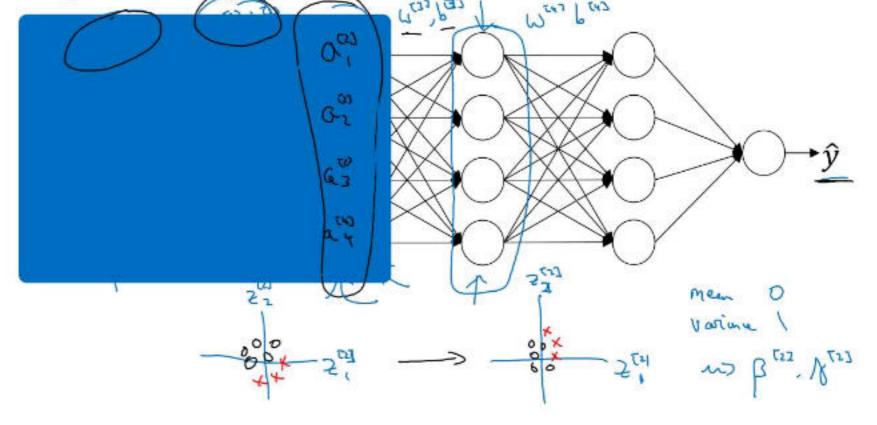
Intuition:



Data改变了, 左重新测线 Model,

五年,Model 垂新组练,归一组使 至功美子,加速训练。

Why this is a problem with neural networks?



Andrew Ng

日期: ル/ム).

M, 0-2 是在boun上计算的、有噪声,有一定 Reg 效果, 测试时将车不多,不规算M, T.

在训练车上对加级指数加权手场。

Soft Max. C= # classes. n= 4. a [1] = (n, 1). 2四三心的处理: 于巴那 zm=(4,1), e²⁷⁰[4.1). ail = ti Logistic.

元(=) SoftMax

Back Prop: $\frac{\partial J}{\partial x^{(1)}} = \hat{y} - y$.

日期: 12 / 21	Tensor Flow.
通过前向传播	结制订单品的人自动发向传播。
X V	
~-> (F)	
	y '
8-	